

AMENDMENTS TO THE CLAIMS

Please amend the claims as shown below. A complete listing of all pending claims is presented.

1. (Currently-Amended) A data transmission system having a transmitting apparatus that transmits a scene description which describes the structures of one or more signals to be used to construct a scene, and a receiving apparatus that constructs the scene according to the scene description, wherein:

said transmitting apparatus has a scene description processing means that transfers a scene description which conforms to the state of a transmission line and/or a request issued from said receiving apparatus and appends time information to data including said scene description;

said receiving apparatus monitors said data, including said time information, sent said transmitting apparatus and detects a delay in transmission in terms of said time information.

2. (Original) A data transmission system according to Claim 1, further comprising a memory means in which a plurality of predefined scene descriptions is stored, wherein:

said scene description processing means selects a scene description from among the plurality of scene descriptions stored in said memory means, and transfers the selected scene description.

3. (Original) A data transmission system according to Claim 1, further comprising a memory means in which a plurality of predefined scene descriptions is stored, wherein:

said scene description processing means converts a predefined scene description read from said memory means into another scene description, and transfers the resultant scene description.

4. (Original) A data transmission system according to Claim 1, wherein said scene description processing means encodes a scene description and transfers the resultant scene description.

5. (Original) A data transmission system according to Claim 1, wherein:

said transmitting apparatus includes a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from said receiving apparatus, as one or more signals to be used to construct a scene; and

said scene description processing means transfers a scene description that conforms to a transmission rate for a signal transferred from said signal processing means and/or quality.

6. (Original) A data transmission system according to Claim 1, wherein:

 said transmitting apparatus includes a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from said receiving apparatus, as one or more signals to be used to construct a scene; and

 said scene description processing means transfers a scene description that includes information necessary for said receiving apparatus to decode the signals transferred from said signal processing means.

7. (Original) A data transmission system according to Claim 1, wherein:

 said transmitting apparatus includes a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from said receiving apparatus, as one or more signals to be used to construct a scene; and

 said scene description processing means transfers a scene description that specifies whether the signals to be used to construct a scene are used or not.

8. (Original) A data transmission system according to Claim 1, wherein said scene description processing means transfers a scene description whose complexity conforms to the state of a transmission line and/or a request issued from said receiving apparatus.

9. (Original) A data transmission system according to Claim 8, wherein said scene description processing means transfers a scene description, with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene, in conformity with the state of a transmission line and/or a request issued from said receiving apparatus.

10. (Original) A data transmission system according to Claim 8, wherein said scene description processing means transfers a scene description, with which a part scene within a scene is removed or a new part scene is added to the scene, in conformity with the state of a transmission line and/or a request issued from said receiving apparatus.

11. (Original) A data transmission system according to Claim 8, wherein said scene description processing means modifies a quantization step, at which a scene description is encoded, in conformity with the state of a transmission line and/or a request issued from said receiving apparatus.

12. (Original) A data transmission system according to Claim 1, wherein said scene description processing means divides a scene description into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from said receiving apparatus, and then transfers the resultant scene description.

13. (Original) A data transmission system according to Claim 12, wherein said scene description processing means adjusts a time interval between time instants at which said receiving apparatus decodes each of the plurality of decoding units into which a scene description is divided.

14. (Currently-Amended) A data transmitting method for transmitting a scene description that describes the structures of one or more signals to be used to construct a scene, and constructing the scene according to the scene description, wherein:

a scene description that conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted;[[.]]

time information is appended to transmitted data including said scene description; and
said time information is monitored to detect delays in transmission in terms of said
time information.

15. (Original) A data transmitting method according to Claim 14, wherein:
a plurality of predefined scene descriptions is stored; and
a scene description is selected from among the plurality of stored scene descriptions, and then transmitted.

16. (Original) A data transmission system according to Claim 14, wherein:
predefined scene descriptions are stored; and

any of the predefined scene descriptions that are stored is read, converted into another scene description, and then transmitted.

17. (Original) A data transmission system according to Claim 14, wherein a scene description is encoded and transmitted.

18. (Original) A data transmission system according to Claim 14, wherein:

one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that conforms to a transmission rate at which the signals are transmitted in compliance with the state of a transmission line and/or a request issued from a receiving side, and/or quality is transmitted.

19. (Original) A data transmitting method according to Claim 14, wherein:

one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that includes information necessary for a receiving side to restore the signals transmitted in conformity with the state of the transmission line and/or the request issued from the receiving side is transmitted.

20. (Original) A data transmission system according to Claim 14, wherein:

one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that specifies whether the signals to be used to construct a scene are used or not is transmitted.

21. (Original) A data transmission system according to Claim 14, wherein a scene description whose complexity conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted.

22. (Original) A data transmission system according to Claim 21, wherein a scene description with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene is transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side.

23. (Original) A data transmitting method according to Claim 21, wherein, a scene description with which a part scene within a scene is removed or a new part scene is added to the scene is transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side.

24. (Original) A data transmitting method according to Claim 21, wherein a quantization step at which a scene description is encoded is modified in conformity with the state of a transmission line and/or a request issued from a receiving side.

25. (Original) A data transmitting method according to Claim 14, wherein a scene description is divided into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from a receiving side, and then transmitted.

26. (Original) A data transmitting method according to Claim 25, wherein a time interval between time instants at which a receiving side decodes each of the plurality of decoding units into which a scene description is divided is adjusted.

27. (Currently-Amendment) A data transmitting apparatus for transmitting a scene description that describes the structures of one or more signals to be used to construct a scene, comprising:

a scene description processing means for transferring a scene description that conforms to the state of a transmission line and/or a request issued from a receiving side and appends time information to data including said scene descriptions.

28. (Original) A data transmitting apparatus according to Claim 27, further comprising:

a memory means in which a plurality of predefined scene descriptions is stored, wherein:

said scene description processing means selects a scene description from among the plurality of scene descriptions stored in said memory means, and transmits the selected scene description.

29. (Original) A data transmitting apparatus according to Claim 27, further comprising:

a memory means in which predefined scene descriptions are stored, wherein:
said scene description processing means converts a predefined scene description read from said memory means into another scene description, and transfers the resultant scene description.

30. (Original) A data transmitting apparatus according to Claim 27, wherein said scene description processing means encodes a scene description and transmits the resultant scene description.

31. (Original) A data transmitting apparatus according to Claim 27, further comprising a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from a receiving side, as one or more signals to be used to construct a scene, wherein:

said scene description processing means transfers a scene description that conforms to a transmission rate for the signals transferred from said signal processing means and/or quality.

32. (Original) A data transmitting apparatus according to Claim 27, further comprising a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from a receiving side, as one or more signals to be used to construct a scene, wherein:

said scene description processing means transfers a scene description that includes information necessary for a receiving side to decode the signals transferred from said signal processing means.

33. (Original) A data transmitting apparatus according to Claim 27, further comprising a signal processing means that transfers one or more signals, which conform to the state of a transmission line and/or a request issued from a receiving side, as one or more signals to be used to construct a scene, wherein:

said scene description processing means transfers a scene description that specifies whether the signals to be used to construct a scene are used or not.

34. (Original) A data transmitting apparatus according to Claim 27, wherein said scene description processing means transfers a scene description whose complexity conforms to the state of a transmission line and/or a request issued from a receiving side.

35. (Original) A data transmitting apparatus according to Claim 34, wherein said scene description processing means transfers a scene description, with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene, in conformity with the state of a transmission line and/or a request issued from a receiving side.

36. (Original) A data transmitting apparatus according to Claim 34, wherein said scene description processing means transfers a scene description, with which a part scene within a scene is removed or a new part scene is added to the scene, in conformity with the state of a transmission line and/or a request issued from a receiving side.

37. (Original) A data transmitting apparatus according to Claim 34, wherein said scene description processing means modifies a quantization step, at which a scene description is encoded, in conformity with the state of a transmission line and/or a request issued from a receiving side.

38. (Original) A data transmitting apparatus according to Claim 27, wherein said scene description processing means divides a scene description into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from a receiving side.

39. (Original) A data transmitting apparatus according to Claim 38, wherein said scene description processing means adjusts a time interval between time instants at which a receiving side decodes each of the plurality of decoding units into which a scene description is divided.

40. (Currently-Amended) A data transmitting method for transmitting a scene description that describes the structures of one or more signals to be used to construct a scene, wherein:

a scene description that conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted[.];

time information is appended to transmitted data including said scene description.

41. (Original)A data transmitting method according to Claim 40, wherein a plurality of predefined scene descriptions is stored, and a scene description selected from among the plurality of scene descriptions that are stored is transmitted.

42. (Original)A data transmitting method according to Claim 40, wherein predefined scene descriptions are stored, and a predefined scene description that is stored is read, converted into another scene description, and then transmitted.

43. (Original) A data transmitting method according to Claim 40, wherein a scene description is encoded and transmitted.

44. (Original) A data transmitting method according to Claim 40, wherein: one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that conforms to a transmission rate at which the signals are transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side, and/or quality is transmitted.

45. (Original) A data transmitting method according to Claim 40, wherein: one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that includes information necessary for a receiving side to decode the signals transmitted in conformity with the state of a transmission line and/or a request issued from the receiving side.

46. (Original) A data transmitting method according to Claim 40, wherein: one or more signals that conform to the state of a transmission line and/or a request issued from a receiving side are transmitted as one or more signals to be used to construct a scene; and

a scene description that specifies whether the signals to be used to construct a scene are used or not is transmitted.

47. (Original) A data transmitting method according to Claim 40, wherein a scene description whose complexity conforms to the state of a transmission line and/or a request issued from a receiving side is transmitted.

48. (Original) A data transmitting method according to Claim 47, wherein a scene description, with which a first part scene within a scene is replaced with a second part scene whose complexity is different from the complexity of the first part scene, is transmitted in conformity with the state of a transmission line and/or a request issued from a receiving side.

49. (Original) A data transmitting method according to Claim 47, wherein a scene description, with which a part scene within a scene is removed or a new part scene is added to the scene, is transferred in conformity with the state of a transmission line and/or a request issued from a receiving side.

50. (Original) A data transmitting method according to Claim 47, wherein a quantization step at which a scene description is encoded is modified in conformity with the state of a transmission line and/or a request issued from a receiving side.

51. (Original) A data transmitting method according to Claim 40, wherein a scene description is divided into a plurality of decoding units in conformity with the state of a transmission line and/or a request issued from a receiving side.

52. (Original) A data transmitting method according to Claim 51, wherein a time interval between time instants at which a receiving side decodes each of the plurality of decoding units into which a scene description is divided is adjusted.

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